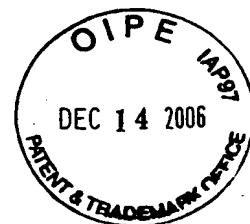


Docket No. 295899US0PCT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Toshiaki KUDO, et al.

SERIAL NO: 10/591,464

GAU:

FILED: September 1, 2006

EXAMINER:

FOR: METHOD OF SCREENING FUNGUS-SPECIFIC ANTIMICROBIAL AGENT AND KIT THEREFOR

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references cited in the attached International Search Report and Written Opinion and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

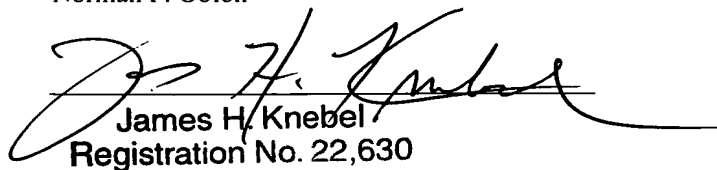
- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
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DOCKET NO.: 295899US0PCT



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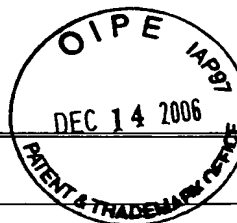
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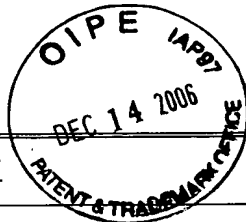
STATEMENT OF RELEVANCY

References AJ, AK, AS through AZ and BR through BY on Form PTO-1449:

These references are mentioned in the specification.



Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 295899US0PCT	SERIAL NO. 10/591,464				
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT Toshiaki KUDO, et al.					
		FILING DATE September 1, 2006	GROUP				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,837,489	11/17/1998	Kathryn J. ELLIOTT, et al.			
	AB	5,939,306	8/17/1999	Lisa A. ALEX, et al.			
	AC	2004/0013759 A1	1/22/2004	Richard B. JENSEN, et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AD	WO 98/44148	10/8/1998	WIPO (corresponding AU 6770398)			
	AE	AU 6770398		Australia (reference is not available, submitting WO 98/44148 only)			
	AF	8-507441	8/13/1996	Japan (with English Abstract and corresponding WO 94/20617; corresponding US 5,837,489 and EP 688361 A)			X
	AG	WO 94/20617	9/15/1994	WIPO (corresponding EP 688361 A)			
	AH	EP 688361 A		Europe (reference is not available, submitting WO 94/20617 only)			
	AI	EP 1 415 996 A2	5/6/2004	Europe (corresponding US 2004/0013759 A1)			
	AJ	5-294995	11/9/1993	Japan (with English Abstract)			X
	AK	9-124411	5/13/1997	Japan (with English Abstract)			X
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AL	Noriyuki OCHIAI, et al., "Characterization of mutations in the two-component histidine kinase gene that confer fludioxonil resistance and osmotic sensitivity in the os-1 mutants of <i>Neurospora crassa</i> ", Society of Chemical Industry, Pest. Manag. Sci., vol. 57, no. 5, 2001, pages 437-442					
	AM	Michiyo OSHIMA, et al., "A Point Mutation in the Two-Component Histidine Kinase Bc0S-1 Gene Confers Dicarboximide Resistance in Field Isolates of <i>Botrytis cinerea</i> ", The American Phytopathological Society, vol. 92, no. 1, 2002, pages 75-80					
	AN	Noriyuki OCHIAI, et al., "Effects of Iprodione and Fludioxonil on Glycerol Synthesis and Hyphal Development in <i>Candida albicans</i> ", Biosci. Biotechnol. Biochem., vol. 66, no. 10, 2002, pages 2209-2215					
	AO	A. YOSHIMI, et al., "Cloning and characterization of the histidine kinase gene <i>Dic1</i> from <i>Cochliobolus heterostrophus</i> that confers dicarboximide resistance and osmotic adaptation", Mol. Gen. Genomics, vol. 271, no. 2, January 2004, pages 228-236					
	AP	Takayuki MOTOYAMA, et al., "Analysis of a signal transduction system mediated by histidine kinase in <i>Pyricularia oryzae</i> ", Institute of Physical and Chemical Research, 3-5Dp16, March 5, 2002, page 187, (with Partial English Translation)					
	AQ	Makoto FUJIMURA, et al., "Histidine Kinase Signal Transduction and Drug Resistance in Filamentous Fungi", Life Sciences Department, Toyo University, vol. 28, no. 4, 2003, pages 484-488 (with English Translation)					
	AR	Takayuki MOTOYAMA, et al., "Creation of a <i>Saccharomyces cerevisiae</i> strain sensitive to filamentous fungus-specific fungicides through the expression of a filamentous fungus-derived histidine kinase", Institute of Physical and Chemical Research, Toyo University, 2A06a08, March 5, 2004, page 21, (with Partial English Translation)					
	AS	"Phytopathological Encyclopedia", Yokendo, March 30, 1995, 4 pages (with Partial English Translation)					
	AT	Christian PILLONEL, et al., "Effect of Phenylpyrroles on Glycerol Accumulation and Protein Kinase Activity of <i>Neurospora crassa</i> ", Pestic. Sci., 49, 1997, pages 229-236					
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	AV	Lisa A. ALEX, et al., "Hyphal development in <i>Neurospora crassa</i> : Involvement of a two-component histidine kinase", Proc. Natl. Acad. Sci., USA, Microbiology, vol. 93, April 1996, pages 3416-3421					
	AW	Irene M. Ota, et al., "A Yeast Protein Similar to Bacterial Two-Component Regulators", Science, vol. 262, October 22, 1993, pages 566-569					
	AX	Takeshi URAO, et al., "A Transmembrane Hybrid-Type Histidine Kinase in Arabidopsis Functions as an Osmosensor", The Plant Cell, www.plantcell.org, American Society of Plant Physiologists, vol. 11, September 1999, pages 1743-1754					
	AY	Gregory B. POTT, et al., "The Isolation of <i>FOS-1</i> , a Gene Encoding a Putative Two-Component Histidine Kinase from <i>Aspergillus fumigatus</i> ", Fungal Genetics and Biology, 31, 2000, pages 55-67					
	AZ	M. Virginia, et al., "A novel 'two-component' protein containing histidine kinase and response regulator domains required for sporulation in <i>Aspergillus nidulans</i> ", Curr. Genet., 37, 2000, pages 364-372					Additional References sheet(s) attached
Examiner							Date Considered
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
295899US0PCTSERIAL NO.
10/591,464

LIST OF REFERENCES CITED BY APPLICANT

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Toshiaki KUDO, et al.

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September 1, 2006

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						
	BM						
	BN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BO	2005-87182	4/7/2005	Japan (with English Abstract)		X
	BP					
	BQ					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	BR	Ann H. WEST, et al., "Histidine kinases and response regulator proteins in two-component signaling systems", TRENDS in Biochemical Sciences, vol. 26, no. 6, June 2001, pages 369-376				
	BS	Lisa A. ALEX, et al., "COS1, a two-component histidine kinase that is involved in hyphal development in the opportunistic pathogen <i>Candida albicans</i> ", Proc. Natl. Acad. Sci. USA, Microbiology, vol. 95, June 1998, pages 7069-7073				
	BT	Shigehisa NAGAHASHI, et al., "Isolation of <i>CaSLN1</i> and <i>CaNIK1</i> , the genes for osmosensing histidine kinase homologues, from the pathogenic fungus <i>Candida albicans</i> ", Microbiology, 144, 1998, pages 425-432				
	BU	Tatsuya MAEDA, et al., "Activation of Yeast PBS2 MAPKK by MAPKKs or by Binding of an SH3-Containing Osmosensor", Science, vol. 269, July 28, 1995, pages 554-558				
	BV	Makoto FUJIMURA, et al., "Putative Homologs of SSK22 MAPKK Kinase and PBS2 MAPK Kinase of <i>Saccharomyces cerevisiae</i> Encoded by <i>os-4</i> and <i>os-5</i> Genes for Osmotic Sensitivity and Fungicide Resistance in <i>Neurospora crassa</i> ", Biosci. Biotechnol. Biochem., 67, 1, 2003, pages 186-191				
	BW	Ian B. DRY, et al., "Dicarboximide resistance in field isolates of <i>Alternaria alternata</i> is mediated by a mutation in a two-component histidine kinase gene", Fungal Genetics and Biology, 41, 2004, pages 102-108				
	BX	Yan ZHANG, et al., "Osmoregulation and Fungicide Resistance: the <i>Neurospora crassa os-2</i> Gene Encodes a HOG1 Mitogen-Activated Protein Kinase Homologue", APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol. 68, no. 2, February 2002, pages 532-538				
	BY	Katherine P. DIXON, et al., "Independent Signaling Pathways Regulate Cellular Turgor during Hyperosmotic Stress and Appressorium-Mediated Plant Infection by <i>Magnaporthe grisea</i> ", The Plant Cell, www.plantcell.org, American Society of Plant Physiologists, vol. 11, October 1999, pages 2045-2058				
	BZ	Wei CUI, et al., "An osmosensing histidine kinase mediates dicarboximide fungicide resistance in <i>Botryotinia fuckeliana</i> (<i>Botrytis cinerea</i>)", Fungal Genetics and Biology, 36, 2002, pages 187-198			<input type="checkbox"/> Additional References sheet(s) attached	

Examiner

Date Considered

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